BRA 15C4

Highlights of Study Findings.
Gladstone Associates.

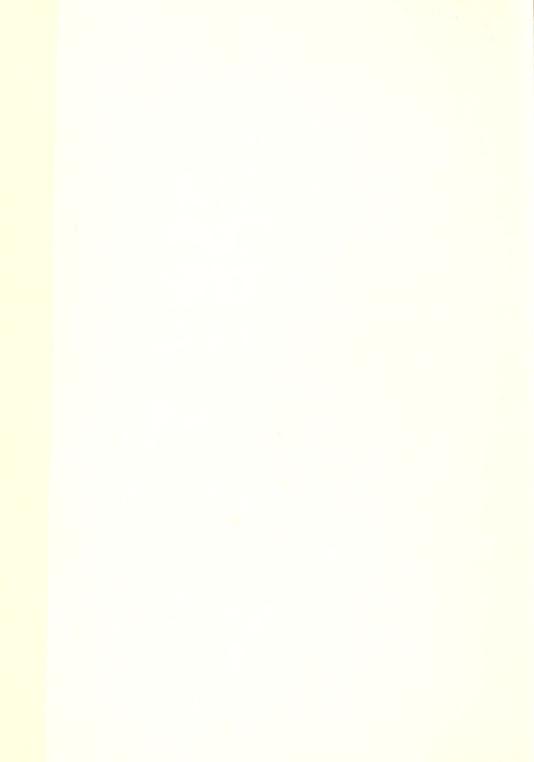
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## HIGHLIGHTS OF STUDY FINDINGS

- MARKET SUPPORTS FOR DOMNTOWN BOSTOW OFFICE SPACE PRESENT A MIXED 1. OUTLOOK FOR THE SHORT TERM. WE RECOMMEND THAT THE OFFICE COMPONENT BE CONSTRUCTED IN TWO PHASES. PHASE I SHOULD CONSIST OF 200,000 TO 250,000 SQUARE FEET PLANMED FOR 1974-1975. THE SECOND PHASE PRO-GRAM TO BE UNDERTAKEN IN 1976-1980 SHOULD BE PLANNED TO ACCOMMODATE 500,000 TO 1,000,000 SQUARE FEET OF ADDITIONAL OFFICE SPACE. AN ADD-ON OF ANOTHER 500,000 SQUARE FEET SHOULD BE ALLOWED FOR TO ACCOM-MODATE PRIME TENANT NEEDS IN THE FUTURE.
- 2. THE OFFICE BUILDING SHOULD CONSIST OF TEN FLOORS WITH A FLOOR MODULE SIZE OF 25,000 SQUARE FEET.
- THE AVERAGE RENTAL RATE SHOULD BE \$8.50 PER SQUARE FOOT BASED ON THE 3. NEW YORK EVALUATION METHOD.
- CENTRAL BOSTON BUILDINGS WHICH ARE PRESENTLY UNDER CONSTRUCTION ARE RENTING FOR UP TO \$9.50 PER SQUARE FOOT.
- ·: 5. THE AVERAGE FLOOR MODULE SIZE FOR SIX BUILDINGS IN CENTRAL BOSTON PRESENTLY UNDER CONSTRUCTION IS 25,000 SQUARE FEET. THE AVERAGE FLOOR MODULE SIZE FOR SELECTED EXISTING BUILDINGS IN CENTRAL BOSTON IS ONLY SLIGHTLY LESS AT 24,000 SQUARE FEET.
  - 6. THE LOCATION AND UNIQUENESS OF THE PIER IV SITE SHOULD ATTRACT HIGH-LY CREATIVE TENANTS. THERE MIGHT BE SOME RESISTANCE TO THE \$8.50 PER SQUARE FOOT RENTAL BUT A QUALITY OFFERING AND AGGRESSIVE MARKET-ING TECHNIQUES CAN OVERCOME THIS OBSTACLE.
- SINCE 1960, OVER 17.5 MILLION SQUARE FEET OF OFFICE SPACE HAS BEEN 7. CONSTRUCTED IN METROPOLITAN BOSTON.
- FOR THE 1960-1965 PERIOD, THE AVERAGE ANNUAL CONSTRUCTION OF OFFICE 8. SPACE IN THE CITY OF BOSTON WAS 506,000 SQUARE FEET. THIS INCREASED TO 1,000,000 SQUARE FEET AMMUALLY FOR THE 1966-1970 PERIOD.
- SINCE 1965, THERE HAS BEEN A NET INCREMENT (ALLOWING FOR DEMOLITICAL) OF 3.0 MILLION SQUARE FEET OF PRIVATE OFFICE SPACE IN CENTRAL BOSTON.

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- 10. DURING THE 1971-1972 PERIOD THERE WILL BE AN ADDITIONAL MET INCREMENT OF 3.7 MILLION SQUARE FEET OF OFFICE SPACE IN CENTRAL BOSTON BASED ON PLANNED CONSTRUCTION.
- 11. AN ADDITIONAL 3.5 MILLION SQUARE FEET OF PRIVATE OFFICE SPACE IS SCHEDULED TO BE COMPLETED IN 1973.
- 12. SINCE 1968 THERE HAS BEEN A SIGNIFICANT UPGRADING OF THE QUALITY OF OFFICE SPACE IN CENTRAL BOSTON. IN 1968, ONLY 19 PERCENT OF SURVEYED OFFICE SPACE WAS CLASSIFIED AS QUALITY CLASS A. BY 1970 A DRAMATIC CHANGE WAS OBSERVED IN CENTRAL BOSTON; 29 PERCENT OF THE OFFICE SPACE IS NOW CLASS A QUALITY.
- 13. THE NUMBER OF PRIVATE OFFICE USING EMPLOYEES IN BOSTON HAS INCREASED FROM 225,900 IN 1960 to 338,900 IN 1970. FURTHERMORE, IT IS PROJECTED THAT PRIVATE OFFICE USING EMPLOYMENT WILL INCREASE TO 394,600 BY 1975 AND SUBSEQUENTLY TO 454,300 BY 1980.
- 14. PRIVATE OFFICE USING EMPLOYMENT IN METROPOLITAN BOSTON HAS BEEN INCREASING AT A RATE EXCEEDING 3 PERCENT ANNUALLY SINCE 1960. THIS INCREASE IN PRIVATE OFFICE USING EMPLOYMENT WILL CREATE DEMAND FOR NEW OFFICE SPACE DURING THE DECADE AHEAD.
- 15. BETWEEN 1970 AND 1975 THERE WILL BE AN ANNUAL DEMAND FOR 1,800,000 SQUARE FEET OF PRIVATE OFFICE SPACE IN METROPOLITAN BOSTON. IN THE 1975-1980 PERIOD THERE WILL BE AN ANNUAL DEMAND FOR 1,900,000 SQUARE FEET OF PRIVATE OFFICE SPACE.
- 16. FOR THE 1971-1972 AND 1973-1974 PERIODS THERE WILL BE AN OVER-SUPPLY OF ALMOST 4 MILLION SQUARE FEET OF OFFICE SPACE IN CENTRAL BOSTON.

  ESTIMATED DEMAND FOR THESE TWO PERIODS ACCOUNT FOR JUST OVER 4-1/4 MILLION SQUARE FEET OF PRIVATE OFFICE SPACE WHEREAS NET INCREMENTS OF OFFICE SPACE ARE ESTIMATED TO AMOUNT TO OVER 7-1/2 MILLION SQUARE FEET.
- .17. OF THE 1,800,000 SQUARE FEET OF OFFICE SPACE DEMAND IN THE 1970-1975
  PERIOD THERE WILL BE AN AVERAGE ANNUAL DEMAND FOR APPROVIMATELY
  100,000 SQUARE FEET OF SPACE WHICH MAY BE TAPPED AT THE PIER BY LOCATION.



- 18. THE PRIVATE OFFICE VACANCY RATE IN CENTRAL BOSTON NOW IS ONLY 1.7 PERCENT. THIS IS A POSITIVE INDICATOR OF THE PRESENT STRENGTH OF THE CENTRAL BOSTON OFFICE MARKET.
- 19. IT IS PROJECTED THAT THE PRIVATE OFFICE VACANCY RATE IN CENTRAL BOSTON WILL RISE TO BETWEEN 5 AND 10 PERCENT IN THE PERIOD IMMEDIATELY AREAD.



SINCE 1960, OVER 17.5 MILLION SQUARE FEET OF NEW OFFICE SPACE HAS BEEN CONSTRUCTED IN THE <u>BOSTO'S METROPOLITAN AREA</u>. SINCE 1967 EVERY YEAR HAS WITNESSED AN ADDITION OF AT LEAST TWO MILLION SQUARE FEET.

Until the beginning of the 1960's, Boston was a city of old office space. Recently completed construction in both Boston and suburban areas is rapidly changing this picture. What was once a complex of 50 year old offices is now a modern office center.

Since 1960, over 17.5 million square feet of office space has been constructed in metropolitan Boston. Almost two-thirds of this new construction has taken place in the City of Boston. The construction pace in the city during the 1967-1970 period has exceeded 1.5 million sq. ft. annually, as evidenced in Table 1 below.

Table 1 ESTIMATED OFFICE BUILDING CONSTRUCTION V

BETROFOLITAN COSTON, 1960-1970

Sq. Ft. (000)

Year	Boston	-Metropolitan Area	Total	Boston as Percent of Total
1960	110	260	. 370	. 30%
1961	140	250	390	. 36
1962	110	180 ·	290	. 38
1983	1,740	. 660 .	2,400	
1964	. 138	460	598	23
1965	800	560	1,360	59
1966	570	370	840	61
1967	3,490	430	3,920	89
1968	1,580	950	2,530	
1959	1,150 .	1,030	2,180	· 55
1970	1.510	1,010	2,550	. 59
TATAL	11	6.3:0	20	

<sup>/</sup> Data are for privately cared buildings only; as a parted that each attempt of a control of a control of the second buildings only; as a parted that each attempt of a control of the con



AVERAGE ANNUAL CONSTRUCTION OF OFFICE SPACE IN THE CITY OF BOSTON FOR THE 1966
1970 PERIOD ACCOUNTED FOR 1.7 MILLION SQUARE FEET.

In terms of average annual pace, private office construction in the Bost metropolitan area has greatly increased during the last four years.

For the 1960-1965 period average annual construction of office space in the City of Boston was 506,000 square feet and just under 400,000 square feet for the remainder of the metropolitan region. Both of these are substantial yelly increments. However, for the 1966-1970 period, average annual office construction in both the City of Boston and the metropolitan area has increased the even higher levels as noted in Table 2.

Table 2 AVERAGE ANNUAL PRIVATE CONSTRUCTION PACE
METROPOLITAN BOSTON, 1960-1970

. <u>Period</u>	Average Annual Construction in Boston (sq. ft.)	Average Annual Construction in Remainder of Metropolitan Arca			
1960-1965	506,000 S.F.	395,000 S.F.			
1966-1970	1,660,000 S.F.	764,000 S.F.			

Source: Gladstone Associates

Average office space construction totalled 1,660,000 and 764,000 ignore feet annually for the City of Boston and the remainder of the metropolitan area respectively, over the past five years. This is an average annual increase to construction in excess of 1,100,000 square feet in the city and 250,000.



feet in the remainder of the metro area over the substantial previous annual level

SINCE 1965 THERE HAS BEEN A NET INCREMENT OF 3,074,000 SQUARE FEET OF PRIVATE

OFFICE SPACE IN CENTRAL BOSTON. NEW CONSTRUCTION HAS AVERAGED 800,000 SQUARE FEET

Since 1965 there has been 4.8 million square feet of private office construction in Central Boston. During this same period 1.7 million square feet of office space was removed from the market by demolition. The interprelationship between office construction and demolition during the 1965-1970 period resulted in a cumulative net increment of 3,074,000 square feet of office space in Central Boston, as displayed below in Table 3. The average annual net increment for Central Boston has been slightly more than 500,000 square feet as indicated.

Table 3 ESTIMATED PRIVATE OFFICE SPACE CONSTRUCTION AND DEMOLITION

CENTRAL BOSTON, 1955-1970

* •			
Year	Construction Sq.Ft.	Demolition Sq.Ft.	Net Increment
1965	800,000	91,000	709,000
1966	570,000	· 64,000	506,000
1967	223,000	428,000	neg.275,000
1968	1,280,000	126,000	1,154,000
1969	469,000	176,000	293,000
1970	1,460,000 2	823,000	637,000
TOTAL	4,802,000	1,708,000	3,074,000

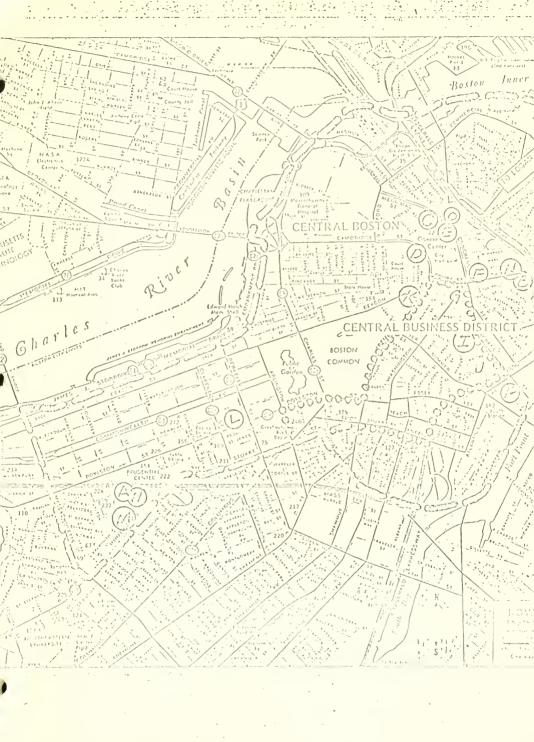
<sup>1.</sup> For delineation of Contral Poster, see facing map.

Source: Chaist of the fields

ANNUALLY.

Includes Fredential Teach #2 due to open in late 1970.







FOR THE 1971-1972 PERIOD IT IS ESTIMATED THAT THERE WILL BE A NET INCREMENT OF 3,698,000 SQUARE FEET OF OFFICE SPACE IN CENTRAL BOSTON, DRAMATICALLY ACCELERATING THE FAST PACE EXPERIENCED IN RECENT YEARS.

Presently under construction in Central Boston are private office buildings which will account for 4,955,000 square feet of new office space by 1972 as shown in Table 4 below. It is estimated that 1,255,000 square feet of office space will be removed by demolition during this period. Resulting in a net office increase of 3,698,000 square feet in Central Boston. On an annual basis this equals 1,849,000 square feet in Central Boston. On an annual basis this equals 1,849,000 sq. ft. compared with 500,000 square feet annually for the previous six years.

## CENTRAL BOSTON, 1971-1972

٠	· Construction	Estimated Demolition	Net Office	Net Office Space Increase		
Year .	Sq.Ft.	Sq.Ft.	Yearly	Cumulative		
1971	2,155,000	1,192,000	963,000	963,000		
1972	2,800,000	£5,000 .	2,735,000	3,698,000		



AN ADDITIONAL THREE AND ONE-HALF MILLION SQUARE FEET OF PRIVATE OFFICE SPACE
IS SCHEDULED TO BE COMPLIED IN CENTRAL BOSTON DURING 1973.

In addition to the 4,955,000 square feet of private office space to be constructed in 1971-1972, an additional 3.5 million sq. ft. of private office space is scheduled for 1973. The 8,500,000 sq. ft. of office space either under construction or proposed will be contained in 15 buildings.

	1971-74	
Year :	Ruber of Evildings	Sq. Ft: of Office Space:
1971 2/	. 6	· 2,155,000 5.F.
1972 3/	3	2,820,000 S.F.
1973	6	- ° . 3,475,000 S.F.
TATOT	15 .	8,450,000 S.F.
. :	ESTIMATED PRIVATE OFFICE CENOLI	TIC3
	CENTRAL POSTCH 1971-1972	
Year	. Derolition (Sq.Ft.)	and the second s
1971	1,192,000 S.F.	
1972 .	65,000 S.F.	
	1,257,000 5.F.	

J Very high probability.

2/ Does not include the Christian Science Church complex of 410,000 s.f. to

Included in the 15 office buildings above are the First National Bank with 1,100,000 square feet of office space, the Keystone Buildings with 775,000 square feet of office space, Employees'-Commercial Building with 1,100,000 square feet of office space, the John Hancock Building with 1,700,000 square feet of office space and the Cabot, Cabot & Forbes Puilding with 900,000 square



feet of office space and the Cabot, Cabot & Forbes Building with 900,000 square feet of office space. For a complete list of buildings see Table in the Appendix. Also under construction is the Christian Science Church Administrative Building with a total of 410,000 square feet of office space. However, it is expected that this office space will be used for church activities only and it is not considered competitive.

The state of the s

One additional building recently announced will augment proposed downtown office space construction substantially, if completed. A proposed twomillion square foot structure is being planned for the Dewey Square area, next to South Station.

There are also two major buildings in the public sector either under construction or planned. The Federal Reserve Building and the Massachusetts Health, Education and Welfare Building, totalling almost 2,000,000 square feet of office space are expected to be completed by 1974. The completion of these two buildings should keep government occupancy of office space in private buildings down in the short term.

SINCE 1968 THERE HAS BEEN A SIGNIFICANT UPGRADING OF THE QUALITY OF OFFICE SPACE IN CENTRAL BOSTON.

Until the 1960's, Boston was a city of old office space. However, the great amount of construction during the last 10 years has significantly upgraded the overall quality of office space in Central Boston. During this period, a number of Class C and D buildings were also removed from inventory by denolitien. It is expected that this trend in upgrading of coffice space will continue with the completion of new buildings and continued with the completion of new buildings and continued with the four quality cotegories see Table 16in Appendix.



ESTIMATE CHANGES SPACE CHARLITY CATEFORDRY V

Year 1558	Add: Rew the space less: the space of spread Not Increase in the space	4,00 +3,00 - 400 2,600	4,500	In Class 10:	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	21,000
	Add: "B" space downgraded from "A" space downgraded from "C" space inproved to "C" space lest increase in "D" space left increase in "D" space left increase in "D" space in "D" space lest increase in "D" space lest in "D" space in "D" space lest in "D" space in "D" space lest in "D		† 400 † 500 • 400 500	+ 400 - 500 - 500		<b>₹ 2,6</b> 00
1970 Year 1958	Add: "C" space demograded to "D" space Less: "D" space demolished Net Decrease in "D" space  PERCENTAGE OF SQ	. 6,600 - FT. 111 FACH	5,000 CLASS <sup>2</sup> /	8,400	\$ 500 -1,100 600 2,900	- 600 - 600 22,900
1970  1/ Lased on fice	ld surveys, quality class ratings and	19x 29x	21 x 22 x	431 371	17x 13x	

I Total coes not acd to 1004 due to the rounding of numbers.

In 1968 only 19 percent of surveyed office space in Central Boston was categorized as Quality Class A. Simultaneously, 50 percent of the office space in Central Boston was categorized as either Quality Class C or D as space.

By 1970 a dramatic change had occurred in Central Boston. Twenty-nine percent of the office space surveyed in 1970 was classified as Quality Class A. This amounted to a 10 percent increase or more than 2,500,000 sq. ft. of additional A quality space. Furthermore, in excess of 50 percent of the office space surveyed was either Quality Class A or B.

Quality Class A office space consumbs the highest price per equal foot and is desired by growing and image conscious firms. Quality Class B office space is also desirable and commands moderate to high rentals.



FIRST-CLASS OFFICE SPACE IN CENTRAL BOSTON IS ATTRACTING RENTS OF UP TO \$9.50

PER SOUARE FOOT.

In recent years there has been a significant increase in rental rates for Central Boston buildings as displayed in Table 7 below. Space completed in 1968 charged rentals of under \$8.00 per square foot. By 1969, office space in the above \$8 per square foot category was successfully being marketed.

Recently completed buildings, such as the Boston Company Building, command prices of up to \$9 per square foot and buildings still under construction are charging rents from \$8 to \$9.50 per sq. ft. Even buildings outside of the traditional downtown area, such as the John Hancock Tower and the Prudential South Tower, are leasing at rates of above \$8.50 per sq. ft.

. Table 7 SELECTED CHILDINGS WITH PENTAL INFORMATION CENTEAL DOSIGN, 1970

Structure	Occupancy Date		Rent per Sq. Ft. Y
New England Herchants 100 Charles River Fark Three Center Flaza Boston Company Building	1968 1968 1969 1970	•	\$6.80 - \$8.00 \$7.00 - \$7.50 \$7.50 - \$9.00 \$7.00 - \$9.00
•		. averagr	\$7.03 - \$8.38
Structure	Completion Date .		Rent Per Sq. Ft. 1/
Prudential South First National Bank Keystone Building Employees'Commencial Union John Mancock Euilding Cabot, Cabot & Forbes Buildin	1970 • 1971 1971 1972 1972 1973		\$7.50 - \$8.50 \$7.75 - \$9.50 \$8.00 - \$9.00 \$8.00 - \$9.00 \$8.00 - \$9.75 \$8.00 - \$9.50
•		average	\$7.88 - \$9.04

<sup>1/</sup> Based on K.w York evaluation retlad.

Source: Gladstore frecelates



THE UNIQUENESS OF THE PIER IV SITE SHOULD ATTRACT HIGHLY CREATIVE TENANTS.

MARKET SUPPORTS FOR \$8.50 PER SQUARE FOOT RENTALS FROM THIS GROUP WILL REQUIRE

A FIRST-CLASS BUILDING AND AGGRESSIVE MARKETING.

The uniqueness of the Pier IV site and a first-class offering, will lend itself to attracting highly creative tenants such as architects, engineers and consultants. In the past, these types of tenants have shown resistance to the marketing of high-priced, downtown office buildings. Many highly creative firms have located in the suburbs in the past to take advantage of desired new space but at lower rentals. However, the rental variance between downtown and suburban office buildings has decreased from \$1.50 per square foot in the mid-1960's to approximately 75¢-85¢ per square foot at present. Furthermore, several engineering firms, accountants and consultants have leased new downtown office space.

Considering the small difference in rents between downtown and suburban locations it is our judgment that downtown offerings can now successfully compete for the highly creative tenant with a unique location and first-class building.

PRIVATE OFFICE USING EMPLOYMENT IN BOSTON HAS INCREASED FROM 255,900 IN 1960
TO 338,900 IN 1970. OFFICE EMPLOYMENT IS EXPECTED TO INCREASE DURING THE
DECADE AHEAD.

In 1960, there were 1,074,000 employees in metropolitan Boston. Approximately 24 percent of these employees, or 255,000, were private office using.

By 1970 total employment in actropolitan Boston had increased to 1,310,000, and private office using employment had increased to 339,900. In 1970 private office using employees accounted for just under 26 percent of total employment in metropolitan Boston.



It is projected that private office using employment will increase to 394,600 by 1975 and 454,300 by 1980. Private office using employees will account for 26.9 percent and 27.9 percent respectively, of total employment in metropolitan Boston.

Table 8 FRIVATE DEFICE USING EMPLOYMENT IN BOSTON REIRO, 1950-1950

			and the second second
Year	Total Salaried Hon-agricultural Imployment	Private Office Using Employment	Percent Private Office Employment
1960	1,074,700	255,900	23.8%
1970	1,313,000	338,900	25.8
1975	1,467,000	394,600	26.9
1980	1,630,000	454,300	27.9

Source: Gladstone Associates

The increase in private office using employment is a measure of the demand for new office space. Since 1960 there has been a substantial increase in private office using employment in metropolitan Boston and consequently a substantial increase in the demand for office space. Average annual increases in office-occupying jobs are expected to continue for the years ahead, as indicated above in Table 8. Furthermore, national trends and projections indicate that the service sector (office using employees) of the economy is now the leading employment category and the fastest growing.



PRIVATE OFFICE USING EMPLOYMENT HAS BEEN INCREASING AT A RATE EXCEEDING 3
PERCENT ANNUALLY SINCE 1960 IN METROPOLITAN BOSTON.

Since 1960 private office using employment has been increasing at a rate exceeding 3 percent annually. It is expected that this substantial rate of increase will continue in the decade ahead. Between 1970 and 1980 private office using employment is expected to increase by more than 115,000. This increase in private office using employment will create demand for new office space.

Between 1970 and 1980 private office using employment will increase by more than 115,000. This increase in private office using employment will create demand for new office space.

Year		Private Office Using Employmen
1960		255,900
1970		338,900
1975		394,600
1980	•	454,300
Period		Average Annual Change
960-1970	•	3,2%
970-1975		3.3%
975-1980		3.0%

Generally the projections presented in Table 9 above are conservatively formulated to take the present economic sloudown into account.

Source: Gladstone



THERE WILL BE AN ANNUAL DEMAND FOR 1.8 MILLION SQUARE FEET OF PRIVATE OFFICE

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SPACE IN METROPOLITAN BOSTON IN THE COMING DECADE.

• The average annual demand for private office space in metropolitan

Boston for the 1960-1970 period was approximately 1,025,000 square feet. This was based on an average annual increase of 8,300 private office using employees and a square feet per employee factor. For the 1970-1975 period there will be an annual demand for approximately 1,800,000 square feet of private office space. This is based on an average annual increase of 11,140 private office using employees. Furthermore, it is projected that for the 1975-1980 period there will be an annual demand for more than 1,900,000 square feet of private office space. Table 10 following exhibits the projected demand for office space.

AVERAGE AURUM DEMAND FOR PRIVATE OFFICE SPACE

=	Private Office Using Employees (Average Annual Increase)	Sq. Ft. per X Employee	=	Average Annual Demand For Private Office Space
1960-1970	8,300	150 sq.ft.		1,245,000 sq.ft.
1970-1975	11,140	160 sq.ft.	•	1,782,400 sq.ft(approx. 1.1
1976-1980	" 11,940	165 sq.ft.	٠	1,970,100 sq.ft.

Source: Gladstone Associates



SINCE 1965 DEMAND FOR OFFICE SPACE IN CENTRAL BOSTON HAS EXCEEDED THE ANNUAL NET INCREMENTS OF OFFICE SPACE. HOMEVER, IN THE COMING YEARS AHEAD (1971-1974) IT IS EXPECTED THAT NEW NET INCREMENTS OF OFFICE SPACE WILL EXCEED THE DEMAND FOR NEW OFFICE SPACE.

The accelerated pace of construction since 1965 has been readily absorbed in Central Boston. Between 1965 and 1970 there was a great amount of construction but also a great amount of demolitions thus reducing the net increment of office space to a more moderate level.

As indicated in Table 11 below, for the 1971-1972 and 1973-1974 period there will be an over-supply of office space entering the market. This over-supply of office space will lead to increases in the Central Boston vacancy rate.

IN CERTRAL BOSTON, 1965-1974 Under Supply of Office Incremental Cumulative Demand for 1/ Ret Increments Over Supply Under Supply! (+) or of Office Space Office Space Space. of Office Space Period (in thousands) (in thousands) (in thousands) (in thousands) Over Supply (-) 1965-1966 1,215 s.f. 1,500 s.f. 285 s.f. + 285 s.f. 1967-1968 929 s.f. 1,500 s.f. 571 s.f. + 856 s.f. 1969-1970 930 s.f. 7,500 s.f. 570 s.f. +1.420 s.f. - 112 s.f. 1971-1972 3.698 s.f. 2.160 s.f. 1,533 s.f. 1973-1974 5,000 s.f. 3 2,160 s.f. 2,840 s.f. -2,952 s.f. ---Total 11,772 s.f. 8,820 s.f. 1,426 s.f. 4.378 s.f.

ABSORPTION OF PRIVATE OFFICE SPACE

Table 11

Based on increases in private office using employment as shown in table with control isster's capture estimated at 60%.

<sup>2/</sup> Estimate based on highly probable building construction and denalitions.
Source: Gladstone Associates



Although the demand for office space will increase to over 2,100,000 square feet per period after 1970, the net increment of new office space will increase to almost 4.5 million square feet per period, or in excess of 2 million sq. ft. per annum.

THE PRIVATE OFFICE DUILDING VACANCY RATE IN CENTRAL BOSTON IS ONLY 1.7 PERCENT.

The private office vacancy rate in Central Boston has been steadily declining from a high of 10.9 percent in 1964. Even as late as October 1967, the vacancy rate stood at 5 percent. Presently, the private office vacancy rate for Central Boston is at an all time low of 1.7 percent as indicated in Table 12.

ble 12 PRIVATE OFFICE VACANCY PATE AND GOVERNMENT OCCUPANCY Y

	1964-1970 CENTRAL BOSTON							
Date	No. Bldgs. Feporting	Total Square Feet of Fontable Space	Total Sq.Ft. Of Vacant Space	Percent Vacant	Total Gov't Tenancy in Competitive Bldgs.	Gov't Occupancy In Competitive Eldss. As % of Total Occupancy		
Jan "64	100	10,403,407	1,142,853	10.9%	731,289	7.32		
Apr 165	. 128	11,735,726	985,123	8.4	816,560	6.9		
Dct '67	153	13,365,079	665,712	5.0	473,311	3,5		
Oct '68	163	14,898,795	404,925	2.7	516,057	3.5		
Dct *69	166	15,790,142	372,234	2.4	686,914	4.4		
r 170	155	15,271,935	252,339	1.7	633,249	4.1		

For competitive, EDMA rember buildings Source: EDMA Association Office Vacancy Survey



office market. For the last 3 or 4 years the Central Boston office market has

demonstrated a depth of demand as new buildings have been quickly rented. Many

of the new buildings such as the Keystone, First National Bank Building,

A declining vacancy rate occurring simultaneously with the construction of

Company Building, Center Plaza III, and the Bulfinch Building all of which entered the market in 1970 are virtually fully leased. However, several buildings which are due to enter the market in 1972-1973 are having some difficulty in

and Prudential Tower are more than 80 percent leased. Furthermore, the Boston

which are due to enter the market in 1972-1973 are having some difficulty in obtaining leases and two major buildings, the Cabot, Cabot & Forbes Building and the proposed Dewey Square development are being constructed without any

Considering the great amount of office space coming on the market between 1970 and 1973, the construction of an office building should not

occur until the 1974-1975 period. An office building of approximately 200,000 to 250,00 square feet -- 2 years of office demand -- could successfully be marketed at the site at that time.

Boston is only slightly less at 23,800 square feet.

major tenants.

THE AVERAGE FLOOR MODULE SIZE OF MAJOR BUILDINGS PRESENTLY UNDER CONSTRUC-TION IN CENTRAL BOSTON IS 25,000 SQUARE FEET.

have an average floor module size of 25,000 square feet as shown in Table 13. The average floor module size for nine selected buildings in Central

The six major buildings presently under construction in Central Boston

In order to compete successfully with buildings presently under construction in Central Doston a competitive floor module size, acceptable to



Table 13 FLOOR MODULE SIZES
FOR SELECTED BUILDINGS,
METROPOLITAN BOSICH, 1970

		* *				75
Name .	· No.	of Floors	Gro	ss Floor (sq. ft.		Floor Hodule Size (sq. ft.)
Central Boston	٠					
New England Merchants 100 Charles River Park Three Center Plaza Boston Company Building Royal Globe Building Bulfinch Plaza Sheraton Building John Hancock Prudential Center		40 9 8 41 5 7 13 18 53		820,000 130,000 250,000 685,000 80,000 75,000 304,000 ,004,000 350,000	s.f.	20,500 s.f. 14,450 s.f. 31,250 s.f. 16,700 s.f. 16,000 s.f. 10,700 s.f. 23,400 s.f. 55,800 s.f. 25,500 s.f.
•		8			AVG.	23,800 s.f.
Central Boston (under construc	tion)					
First Mational Bank Keystone Building Employees (Commercial Union Prudential South John Hancock Tower C.C.F. Building		37 32 37 26 60 44	. 1	,100,000 775,000 ,100,000 450,000 ,700,000 900,000		29,700 s.f. 24,200 s.f. 29,700 s.f. 17,300 s.f. 28,300 s.f. 20,500 s.f.
Suburbs				*	AVG.	24,950 s.f.
Central Plaza Cambridge Gateway 400 Totem Pond Foad 402 Totem Fond Road 235 Wyman St. Boylston Executive Park 20 Walnut St.		14 16 4 4 3 5		130,000 220,000 80,000 80,000 90,000 115,000 30,000		9,300 s.f. 13,800 s.f. 20,000 s.f. 20,000 s.f. 30,000 s.f. 23,000 s.f. 7,500 s.f.
					AVG.	17,700 s.f.

Source: Gladstone Associates

full floor user requirements, is necessary. Furthermore, a floor module size of 25,000 square feet lends itself to easy division for less than full floor users. The 25,000 square foot module size can accommodate full floor use or smaller tenant needs by easy division into sections.



THE PRIVATE OFFICE VACANCY RATE FOR CENTRAL BOSTON IS EXPECTED TO RISE TO BETWEEN 5 AND 10 PERCENT IN THE 1971-1972 PERIOD AND REMAIN AT THAT LEVEL THROUGH 1975. WEAKER RENTAL MARKETS THAN NOW EXIST MAY BE EXPECTED FOR THE SHORT-TERM.

An additional eight million square feet of private office space is expected to enter the Central Boston market in the next 2 or 3 years.

This great increment -- coupled with currently sluggish economic conditions -- will cause private office vacancy rates to rise in the near future. Office supply and demand will approach an equilibrium level between the 5 and 10 percent vacancy level as indicated in Table 14. Although considerably higher than the present vacancy level of 1.7 percent it is still an acceptable level and should not lead to any concessions or lowering of rental rates, if the lower rate can be sustained.

Table 14 PRIVATE CEFICE SPACE SUPPLY AND DEMAND

INTERRELATIONSHIP AT ASSUMED VACANCY LEVELS FOR CENTRAL

BOSTON, 1970-1975

	1971-1972				1973-1975			
Approximate 1970	Alt. A Assumes 1.7% Vacancy	Alt. B Assumes 5.01 Vocancy	Alt. C Assumes 10.% Vacancy	. Approximate 1972	Alt. A Assumes 1.71 Vacancy	Alt. B Assures 5.0% Vecancy	Alt. C Asserts 10.0 (2000)	
Supply of Office Space (millions of s.f.)	23.5	23.5	23.5	Supply of Office Space (millions of s.f.) 4	. 28.2	28.2	28.2	
. New Not Increments (millions of s.f.)	4.7	4.7	4.7	Rew Net Increments (millions of s.f.)	6.0	6.0	6.0	
Total Office Supply (millions of sq. ft.)	28.2	28.2	28.2	Total Office - Supply (millions of sq. ft.)	34.5	34.5	34.5	
Assumed Vacancy Rate	1.7	5.0	10.0	Assumed Vacancy Rate	1.7	5.0	10.0	
Amount Vacant (cillions of sq. ft.)	.5	1.4	÷. 2.8	Amount Vacant (millions of sq. ft.)	.6	1.7	3.5	
New Office Space Lemand (millions of sq. ft.)	2.2	2.2	2.2	. Hew Office Space Lerand (millions of sq. ft.)	3.3	3.3	3.3	
Over Supply of Office Space (millions of sq. ft.)	2.0	1.1	3 1/	Over Supply of Office Space (millions of sq. ft.)	2.1	1.0	٠.٤ ع.٠	

THE AVERAGE AUGUAL DEMAND FOR OFFICE SPACE AT THE PIER IV LOCATION IS ESTIMATED AT APPROXIMATELY ONE HUNDRED THOUSAND SQUARE FEET.

For the 1970-1975 period there will be an average annual demand for 1.8 million square feet of office space in metropolitan Boston. Experience shows that Central Boston can capture approximately 60 percent of the metropolitan demand for office space or just over one million square feet per year. Furthermore, in our judgment, the Pier IV location can reasonably expect to capture 10 percent of the Central Boston demand or 6 percent of the metropolitan demand for office space, or approximately 100,000 square feet per year as portrayed in Table 15 below.

## Table 15 AVERAGE ANUMAL DEPEND FOR OFFICE SPACE FOSTOR SISA 1970-1975

Area	Percentage of SMSA Annual Demand for Office Space	Average Annual Demand for Office Space Sq.Ft. (000)
Boston SMSA	100%	1,782 S.F.
Central Boston	. 60%	1,069 S.F.
Fort Point Channel	6%	107 S.F.

## Recommended Pier IV Office Program

1. 1974-75

- 200-250,000 S.F.
- 2. Test market response at this time.
- Attempt to secure major prime tenant -plan should accompdate this option.
- 4. 1976-80
  - a. Program without prime tenant: 500,000 to 1,000,000 S.F.
  - b. Add-on for price tenent: 500,000 S.F. 4

Source: Gladstone Associates, 1970.



This quality building was recently constructed. "A" Quality. Entrances are well-lighted and lobbies spacious. Elevator service is efficient and automatic. The buildings have central air conditioning and are heated by forced air or a heat exchange air handling device. They are uniformly wellmaintained.

Buildings in this quality class are generally older "B" Quality. than those in "A" quality. Entrances are not as well-lighted or spacious as the "A" quality buildings. Efficient and automatic elevator service is provided. Central air conditioning and heating systems are modern and effective. Quality of maintenance is high. Some older but fully and effectively remodeled buildings are included in "B" quality.

This quality building is either partially air-"C" Quality. conditioned or has window units or has no airconditioning whatsoever. Elevator service is poor to fair. Entrances are typically poorly lighted and poorly planned. These are older buildings and the maintenance level varies greatly. These buildings have not been remodeled or have been remodeled partially or ineffectively. The general appearance is poor.

This quality building has no central air con-"D" Quality. ditioning, or limited window units. It typically has poor elevator service, often manual. A tenant mix is a factor in this quality rating. Many nonoffice or quasi industrial concerns are located in this quality building. Buildings are usually dirty and poorly maintained.



Table	17 MAJOR OFFICE BUILDING	GS		
	IN CENTRAL BOSTON		and the second s	
	WITH HAP KEY			7
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Key	<u>Structure</u> 0cc	cupancy Date	/ ·*.	Rentable Space
A ·	Prudential Tower Huntington Avenue	1963		1,200,000 SF
В .	State Street Bank 225 Franklin	1965		800,000
C -	State Office Building	1966	•	800,000
D .	Center Plaza I II III	1966 1968 1970	v' .	250,000 250,000 250,000
E	Federal Office Building Government Center	1967		860,000
F	New England Merchants National Bank	1968		820,000
G	Boston Comp. Building Washington, Court & State St.	1970		. 685,000
Н	Prudential Tower #2 Huntington Ave.	1970	(under construction)	450,000
I :	First National Bank .	<b>1</b> 971	(under construction)	1,100,000
J	Keystone Bldg.	1971	(under construction)	775,000
К	Employers' - Commercial 1 Beacon Street	Late 1972	(under construction)	1,100,000
L .	John Hancock Building	1972	(under construction)	1,700,000
М	Christian Science Church Administrative	1972	(under construction)	410,000
н	Cabot, Cabot and Forbes	1973	proposed	900,000
b	State Building Health, Welfare & Education	· <b>1</b> 973	(under construction)	850,000
P	Federal Reserve Bldg.	1974	proposed	1,090,04







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